VSW-HDMI8X8-B

BLACK BOX NETWORK SERVICES

8 x 8 HDMI Matrix Switch RS-232 Protocol Manual

Switch (8) source devices with HDMI and IR to (8) displays with HDMI.

Supports 1080p 3D HDMI or DVI formats + IR with RS-232 or IR remote control.

Customer Support Information

Order toll-free in the U.S.: Call 877-877-BBOX (outside U.S. call 724-746-5500)
FREE technical support 24 hours a day, 7 days a week: Call 724-746-5500 or fax 724-746-0746
Mailing address: Black Box Corporation, 1000 Park Drive, Lawrence, PA 15055-1018
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RS-232 Protocol and Command

RS-232 Cable Pin Lines

Matrix Switch RS-232 pins out, DB9 female connector		PC RS-232 pins, DB9 male connector	
Not connected	1----------	1	Not connected
TX	2----------	2	RX
RX	3----------	3	TX
Not connected	4----------	4	Not connected
GND	5----------	5	GND
Not connected	6----------	6	Not connected
Not connected	7----------	7	Not connected
Not connected	8----------	8	Not connected
Not connected	9----------	9	Not connected

1. Transmission rate: 9600 bps

2. Data format: 8 data bits, no parity, 1 start bit, and 1 stop bit

3. Flow control: None

Also known as 9600, 8, n, 1.

Data String Format

The Data String contains four elements:

[Command][ ][Data][;]

The format is:

1. Command

2. Space

3. Data

4. ;

There is a single space after the Command and before the Data string. The data string must conclude with a semicolon ";" (without the quotes). All text is full ASCII Code and is NOT case sensitive. You can use either capital letters or lower-case letters and get the same result.

The LINK command must be sent first. This establishes a communications link between an external controller or computer and the device you want to control. When you have an established link, communication via the IR port is disabled. The front panel remains operational.

The format is:

LINK 01; This will establish the link.

LINK 00; This will terminate the link.

Devices that are firmware version x.x or higher will return a status. This status is command dependent.

For example: Response [SKU][ ][Status][;]

The Status is a two-digit numerical code. See page 4 in this document for specific details.

Commands

NOTE: Not all commands are supported on all devices.

Commands

Item	Command	Description
1	Link	Establish or disable the data link between the controller and the device.
2	Power	Set/check the status of power.
3	Output [d]	Set/check the status of single outputs.
4	ActiveSource	Check the status of an input for a signal present.
5	OutputAll	Set/check the status of all outputs.
6	Recall	Recall a saved matrix configuration from memory.
7	Recall [mm]	Check the memory address data.
8	Memory	Save the current matrix.
9	Lock	Set/check the status of lock.
10	EDID	Set/check EDID (HDMI only).
11	Signal Format	Sets V + A, A only.

1. Link

Function	Command	Response	Description
Leave	Link 00;	VSWHDMI8X8B 00;	Leave
		VSWHDMI8X8B 01;	Command not recognized
Link	Link 01;	VSWHDMI8X8B 00;	Link
		VSWHDMI8X8B 01;	Command not recognized
Check Link Condition	Link ?;	Link 00; Link 01;	System Leave System Link

2. Power

Function	Command	Response	Description
Power OFF	Power 00;	VSWHDMI8X8B 00;	Power off
		VSWHDMI8X8B 01;	Command not recognized
Power ON	Power 01;	VSWHDMI8X8B 00;	Power on
		VSWHDMI8X8B 01;	Command not recognized
Check Power Status	Power ?;	Power 00; Power 01;	Power off Power on

3. Output [dd]

Function	Command	Response	Description
OFF source	OUTPUT01 00;	VSWHDMI8X8B 00;	Output 1 is off
		VSWHDMI8X8B 01;	Command not recognized
	OUTPUT02 00;	VSWHDMI8X8B 00;	Output 2 is off
		VSWHDMI8X8B 01;	Command not recognized
	OUTPUT03 00;	VSWHDMI8X8B 00;	Output 3 is off
		VSWHDMI8X8B 01;	Command not recognized
	OUTPUT04 00;	VSWHDMI8X8B 00;	Output 4 is off
		VSWHDMI8X8B 01;	Command not recognized
	OUTPUT05 00;	VSWHDMI8X8B 00;	Output 5 is off
		VSWHDMI8X8B 01;	Command not recognized
	OUTPUT06 00;	VSWHDMI8X8B 00;	Output 6 is off
		VSWHDMI8X8B 01;	Command not recognized
	OUTPUT07 00;	VSWHDMI8X8B 00;	Output 7 is off
		VSWHDMI8X8B 01;	Command not recognized
	OUTPUT08 00;	VSWHDMI8X8B 00;	Output 8 is off
		VSWHDMI8X8B 01;	Command not recognized
Set channel status	OUTPUT01 01;	VSWHDMI8X8B 00;	Set output 1 to input 1
		VSWHDMI8X8B 01;	Command not recognized
	OUTPUT01 02;	VSWHDMI8X8B 00;	Set output 1 to input 2
		VSWHDMI8X8B 01;	Command not recognized
	OUTPUT01 03;	VSWHDMI8X8B 00;	Set output 1 to input 3
		VSWHDMI8X8B 01;	Command not recognized
	OUTPUT01 04;	VSWHDMI8X8B 00;	Set output 1 to input 4
		VSWHDMI8X8B 01;	Command not recognized
	OUTPUT01 05;	VSWHDMI8X8B 00;	Set output 1 to input 5
		VSWHDMI8X8B 01;	Command not recognized
	OUTPUT01 06;	VSWHDMI8X8B 00;	Set output 1 to input 6
		VSWHDMI8X8B 01;	Command not recognized
	OUTPUT01 07;	VSWHDMI8X8B 00;	Set output 1 to input 7
		VSWHDMI8X8B 01;	Command not recognized
	OUTPUT01 08;	VSWHDMI8X8B 00;	Set output 1 to input 8
		VSWHDMI8X8B 01;	Command not recognized
Set channel status	OUTPUT02 01;	VSWHDMI8X8B 00;	Set output 2 to input 1
		VSWHDMI8X8B 01;	Command not recognized
	OUTPUT02 02;	VSWHDMI8X8B 00;	Set output 2 to input 2
		VSWHDMI8X8B 01;	Command not recognized
	OUTPUT02 03;	VSWHDMI8X8B 00;	Set output 2 to input 3
		VSWHDMI8X8B 01;	Command not recognized
	OUTPUT02 04;	VSWHDMI8X8B 00;	Set output 2 to input 4
		VSWHDMI8X8B 01;	Command not recognized
	OUTPUT02 05;	VSWHDMI8X8B 00;	Set output 2 to input 5
		VSWHDMI8X8B 01;	Command not recognized

3. Output [dd] (continued)

Function	Command	Response	Description
Set channel status	OUTPUT02 06;	VSWHDMI8X8B 00;	Set output 2 to input 6
		VSWHDMI8X8B 01;	Command not recognized
	OUTPUT02 07;	VSWHDMI8X8B 00;	Set output 2 to input 7
		VSWHDMI8X8B 01;	Command not recognized
	OUTPUT02 08;	VSWHDMI8X8B 00;	Set output 2 to input 8
		VSWHDMI8X8B 01;	Command not recognized
	OUTPUT03 01;	VSWHDMI8X8B 00;	Set output 3 to input 1
		VSWHDMI8X8B 01;	Command not recognized
	OUTPUT03 02;	VSWHDMI8X8B 00;	Set output 3 to input 2
		VSWHDMI8X8B 01;	Command not recognized
	OUTPUT03 03;	VSWHDMI8X8B 00;	Set output 3 to input 3
		VSWHDMI8X8B 01;	Command not recognized
	OUTPUT03 04;	VSWHDMI8X8B 00;	Set output 3 to input 4
		VSWHDMI8X8B 01;	Command not recognized
	OUTPUT03 05;	VSWHDMI8X8B 00;	Set output 3 to input 5
		VSWHDMI8X8B 01;	Command not recognized
	OUTPUT03 06;	VSWHDMI8X8B 00;	Set output 3 to input 6
		VSWHDMI8X8B 01;	Command not recognized
	OUTPUT03 07;	VSWHDMI8X8B 00;	Set output 3 to input 7
		VSWHDMI8X8B 01;	Command not recognized
	OUTPUT03 08;	VSWHDMI8X8B 00;	Set output 3 to input 8
		VSWHDMI8X8B 01;	Command not recognized
Set channel status	OUTPUT04 01;	VSWHDMI8X8B 00;	Set output 4 to input 1
		VSWHDMI8X8B 01;	Command not recognized
	OUTPUT04 02;	VSWHDMI8X8B 00;	Set output 4 to input 2
		VSWHDMI8X8B 01;	Command not recognized
	OUTPUT04 03;	VSWHDMI8X8B 00;	Set output 4 to input 3
		VSWHDMI8X8B 01;	Command not recognized
	OUTPUT04 04;	VSWHDMI8X8B 00;	Set output 4 to input 4
		VSWHDMI8X8B 01;	Command not recognized
	OUTPUT04 05;	VSWHDMI8X8B 00;	Set output 4 to input 5
		VSWHDMI8X8B 01;	Command not recognized
	OUTPUT04 06;	VSWHDMI8X8B 00;	Set output 4 to input 6
		VSWHDMI8X8B 01;	Command not recognized
	OUTPUT04 07;	VSWHDMI8X8B 00;	Set output 4 to input 7
		VSWHDMI8X8B 01;	Command not recognized
	OUTPUT04 08;	VSWHDMI8X8B 00;	Set output 4 to input 8
		VSWHDMI8X8B 01;	Command not recognized
Set Channel Status	OUTPUT05 01;	VSWHDMI8X8B 00;	Set output 5 to input 1
		VSWHDMI8X8B 01;	Command not recognized

3. Output [dd] (continued)

Function	Command	Response	Description
	OUTPUT05 02;	VSWHDMI8X8B 00;	Set output 5 to input 2
		VSWHDMI8X8B 01;	Command not recognized
	OUTPUT05 03;	VSWHDMI8X8B 00;	Set output 5 to input 3
		VSWHDMI8X8B 01;	Command not recognized
	OUTPUT05 04;	VSWHDMI8X8B 00;	Set output 5 to input 4
		VSWHDMI8X8B 01;	Command not recognized
	OUTPUT05 05;	VSWHDMI8X8B 00;	Set output 5 to input 5
		VSWHDMI8X8B 01;	Command not recognized
	OUTPUT05 06;	VSWHDMI8X8B 00;	Set output 5 to input 6
		VSWHDMI8X8B 01;	Command not recognized
	OUTPUT05 07;	VSWHDMI8X8B 00;	Set output 5 to input 7
		VSWHDMI8X8B 01;	Command not recognized
	OUTPUT05 08;	VSWHDMI8X8B 00;	Set output 5 to input 8
		VSWHDMI8X8B 01;	Command not recognized
Set Channel Status	OUTPUT06 01;	VSWHDMI8X8B 00;	Set output 6 to input 1
		VSWHDMI8X8B 01;	Command not recognized
	OUTPUT06 02;	VSWHDMI8X8B 00;	Set output 6 to input 2
		VSWHDMI8X8B 01;	Command not recognized
	OUTPUT06 03;	VSWHDMI8X8B 00;	Set output 6 to input 3
		VSWHDMI8X8B 01;	Command not recognized
	OUTPUT06 04;	VSWHDMI8X8B 00;	Set output 6 to input 4
		VSWHDMI8X8B 01;	Command not recognized
	OUTPUT06 05;	VSWHDMI8X8B 00;	Set output 6 to input 5
		VSWHDMI8X8B 01;	Command not recognized
	OUTPUT06 06;	VSWHDMI8X8B 00;	Set output 6 to input 6
		VSWHDMI8X8B 01;	Command not recognized
	OUTPUT06 07;	VSWHDMI8X8B 00;	Set output 6 to input 7
		VSWHDMI8X8B 01;	Command not recognized
	OUTPUT06 08;	VSWHDMI8X8B 00;	Set output 6 to input 8
		VSWHDMI8X8B 01;	Command not recognized
Set Channel Status	OUTPUT07 01;	VSWHDMI8X8B 00;	Set output 7 to input 1
		VSWHDMI8X8B 01;	Command not recognized
	OUTPUT07 02;	VSWHDMI8X8B 00;	Set output 7 to input 2
		VSWHDMI8X8B 01;	Command not recognized
	OUTPUT07 03;	VSWHDMI8X8B 00;	Set output 7 to input 3
		VSWHDMI8X8B 01;	Command not recognized
	OUTPUT07 04;	VSWHDMI8X8B 00;	Set output 7 to input 4
		VSWHDMI8X8B 01;	Command not recognized
	OUTPUT07 05;	VSWHDMI8X8B 00;	Set output 7 to input 5
		VSWHDMI8X8B 01;	Command not recognized

3. Output [dd] (continued)

Function	Command	Response	Description
Set Channel Status	OUTPUT07 06;	VSWHDMI8X8B 00;	Set output 7 to input 6
		VSWHDMI8X8B 01;	Command not recognized
	OUTPUT07 07;	VSWHDMI8X8B 00;	Set output 7 to input 7
		VSWHDMI8X8B 01;	Command not recognized
	OUTPUT07 08;	VSWHDMI8X8B 00;	Set output 7 to input 8
		VSWHDMI8X8B 01;	Command not recognized
Set Channel Status	OUTPUT08 01;	VSWHDMI8X8B 00;	Set output 8 to input 1
		VSWHDMI8X8B 01;	Command not recognized
	OUTPUT08 02;	VSWHDMI8X8B 00;	Set output 8 to input 2
		VSWHDMI8X8B 01;	Command not recognized
	OUTPUT08 03;	VSWHDMI8X8B 00;	Set output 8 to input 3
		VSWHDMI8X8B 01;	Command not recognized
	OUTPUT08 04;	VSWHDMI8X8B 00;	Set output 8 to input 4
		VSWHDMI8X8B 01;	Command not recognized
	OUTPUT08 05;	VSWHDMI8X8B 00;	Set output 8 to input 5
		VSWHDMI8X8B 01;	Command not recognized
	OUTPUT08 06;	VSWHDMI8X8B 00;	Set output 8 to input 6
		VSWHDMI8X8B 01;	Command not recognized
	OUTPUT08 07;	VSWHDMI8X8B 00;	Set output 8 to input 7
		VSWHDMI8X8B 01;	Command not recognized
	OUTPUT08 08;	VSWHDMI8X8B 00;	Set output 8 to input 8
		VSWHDMI8X8B 01;	Command not recognized
Check output status	OUTPUT 01 ?;	Output01 01;	Output 1 to input 1
		Output01 02;	Output 1 to input 2
		Output 01 03;	Output 1 to input 3
		Output 01 04;	Output 1 to input 4
		Output01 05;	Output 1 to input 5
		Output01 06;	Output 1 to input 6
		Output 01 07;	Output 1 to input 7
		Output 01 08;	Output 1 to input 8
	OUTPUT 02 ?;	Output02 01;	Output 2 to input 1
		Output02 02;	Output 2 to input 2
		Output02 03;	Output 2 to input 3
		Output02 04;	Output 2 to input 4
		Output02 05;	Output 2 to input 5
		Output02 06;	Output 2 to input 6
		Output 02 07;	Output 2 to input 7
		Output 02 08;	Output 2 to input 8

3. Output [dd] (continued)

Function	Command	Response	Description
Check output status	OUTPUT 03 ?;	Output03 01;	Output 3 to input 1
		Output03 02;	Output 3 to input 2
		Output 03 03;	Output 3 to input 3
		Output 03 04;	Output 3 to input 4
		Output03 05;	Output 3 to input 5
		Output03 06;	Output 3 to input 6
		Output 03 07;	Output 3 to input 7
		Output 03 08;	Output 3 to input 8
	OUTPUT 04 ?;	Output04 01;	Output 4 to input 1
		Output04 02;	Output 4 to input 2
		Output04 03;	Output 4 to input 3
		Output04 04;	Output 4 to input 4
		Output04 05;	Output 4 to input 5
		Output04 06;	Output 4 to input 6
		Output 04 07;	Output 4 to input 7
		Output 04 08;	Output 4 to input 8
	OUTPUT 05 ?;	Output05 01;	Output 5 to input 1
		Output05 02;	Output 5 to input 2
		Output05 03;	Output 5 to input 3
		Output05 04;	Output 5 to input 4
		Output05 05;	Output 5 to input 5
		Output05 06;	Output 5 to input 6
		Output05 07;	Output 5 to input 7
		Output05 08;	Output 5 to input 8
	OUTPUT 06 ?;	Output06 01;	Output 6 to input 1
		Output06 02;	Output 6 to input 2
		Output06 03;	Output 6 to input 3
		Output06 04;	Output 6 to input 4
		Output06 05;	Output 6 to input 5
		Output06 06;	Output 6 to input 6
		Output06 07;	Output 6 to input 7
		Output06 08;	Output 6 to input 8
	OUTPUT 07 ?;	Output07 01;	Output 7 to input 1
		Output07 02;	Output 7 to input 2
		Output07 03;	Output 7 to input 3
		Output07 04;	Output 7 to input 4
		Output07 05;	Output 7 to input 5
		Output07 06;	Output 7 to input 6
		Output07 07;	Output 7 to input 7
		Output08 08;	Output 7 to input 8

3. Output [dd] (continued)

Function	Command	Response	Description
Check output status	OUTPUT 08 ?;	Output08 01;	Output 8 to input 1
		Output08 02;	Output 8 to input 2
		Output 08 03;	Output 8 to input 3
		Output 08 04;	Output 8 to input 4
		Output08 05;	Output 8 to input 5
		Output08 06;	Output 8 to input 6
		Output08 07;	Output 8 to input 7
		Output08 08;	Output 8 to input 8

4. Active Source

Function	Command	Response	Description
Check the status of a signal on an input port	ACTIVESOURCE ?;	ActiveSource 0100;	Input 1 = 01 so the signal is active. Input 2 = 00 so the signal is inactive.
		ActiveSource 0101;	Input 1 = 01 so the signal is active. Input 2 = 01 so the signal is inactive.
		ActiveSource 0000;	Input 1 = 00 so the signal is active. Input 2 = 00 so the signal is inactive.

NOTE: This does not validate if the signal is within proper format (ex. 1VPP Video), only that one is present and active.

5. OutputAll

Function	Command	Response	Description
Switch all outputs off	OUTPUTALL 00;	VSWHDMI8X8B 00;	Unlock
		VSWHDMI8X8B 01;	Command not recognized
Set all outputs to one source	OUTPUTALL 01;	VSWHDMI8X8B 00;	Set all outputs to Source 1
		VSWHDMI8X8B 01;	Command not recognized
	OUTPUTALL 02;	VSWHDMI8X8B 00;	Set all outputs to Source 2
		VSWHDMI8X8B 01;	Command not recognized
	OUTPUTALL 03;	VSWHDMI8X8B 00;	Set all outputs to Source 3
		VSWHDMI8X8B 01;	Command not recognized
	OUTPUTALL 04;	VSWHDMI8X8B 00;	Set all outputs to Source 4
		VSWHDMI8X8B 01;	Command not recognized
	OUTPUTALL 05;	VSWHDMI8X8B 00;	Set all outputs to Source 5
		VSWHDMI8X8B 01;	Command not recognized
	OUTPUTALL 06;	VSWHDMI8X8B 00;	Set all outputs to Source 6
		VSWHDMI8X8B 01;	Command not recognized
	OUTPUTALL 07;	VSWHDMI8X8B 00;	Set all outputs to Source 7
		VSWHDMI8X8B 01;	Command not recognized
	OUTPUTALL 08;	VSWHDMI8X8B 00;	Set all outputs to Source 8
		VSWHDMI8X8B 01;	Command not recognized
Check the status of all outputs	OUTPUTALL 01020304	Response all outputs status	Output1=01, output 1 to input 1
			Output2=-02, output2 to input2
			Output3=03, output3 to input 3
			Output4=04, output 4 to input 4
			Output4=05, output 5 to input 5
			Output4=06, output 4 to input 6
			Output4=07; output 4 to input 7
			Output4=08, output 4 to input 8

6. Recall

Function	Command	Response	Description
Recall a saved configuration from memory	RECALL 00;	VSWHDMI8X8B 00; VSWHDMI8X8B 01;	Recall from memory00 Command not recognized
	RECALL 01;	VSWHDMI8X8B 00; VSWHDMI8X8B 01;	Recall from memory01 Command not recognized
	RECALL 02;	VSWHDMI8X8B 00; VSWHDMI8X8B 01;	Recall from memory02 Command not recognized
	RECALL 03;	VSWHDMI8X8B 00; VSWHDMI8X8B 01;	Recall from memory03 Command not recognized
	RECALL 04;	VSWHDMI8X8B 00; VSWHDMI8X8B 01;	Recall from memory04 Command not recognized
	RECALL 05;	VSWHDMI8X8B 00; VSWHDMI8X8B 01;	Recall from memory05 Command not recognized
	RECALL 06;	VSWHDMI8X8B 00; VSWHDMI8X8B 01;	Recall from memory06 Command not recognized
	RECALL 07;	VSWHDMI8X8B 00; VSWHDMI8X8B 01;	Recall from memory07 Command not recognized
	RECALL 08;	VSWHDMI8X8B 00; VSWHDMI8X8B 01;	Recall from memory08 Command not recognized
	RECALL 09;	VSWHDMI8X8B 00; VSWHDMI8X8B 01;	Recall from memory09 Command not recognized
	RECALL 0A;	VSWHDMI8X8B 00; VSWHDMI8X8B 01;	Recall from memory10 Command not recognized
	RECALL 0B;	VSWHDMI8X8B 00; VSWHDMI8X8B 01;	Recall from memory11 Command not recognized
	RECALL 0C;	VSWHDMI8X8B 00; VSWHDMI8X8B 01;	Recall from memory12 Command not recognized
	RECALL 0D;	VSWHDMI8X8B 00; VSWHDMI8X8B 01;	Recall from memory13 Command not recognized
	RECALL 0E;	VSWHDMI8X8B 00; VSWHDMI8X8B 01;	Recall from memory14 Command not recognized
	RECALL 0F;	VSWHDMI8X8B 00; VSWHDMI8X8B 01;	Recall from memory15 Command not recognized
	RECALL 10;	VSWHDMI8X8B 00; VSWHDMI8X8B 01;	Recall from memory16 Command not recognized

7. Recall [mm]

Function	Command	Response	Description
Check the memory address data	RECALL 00?;	RECALL00 0102030405060708 *NOTE: "RECALL00" means recall from memory address 1. 0102030405060708 are the input numbers connected to outputs 1–8.*	Output1= 01, output 1 to input1 Output2= 02, output 2 to input2 Output3= 03, output 3 to input3 Output4=04, output 4 to input4 Output5= 05, output 5 to input 5 Output6 = 06, output 6 to input 6 Output7 = 07, output 7 to input 7 Output8 = 08, output 8 to input 8
	RECALL 01?;	RECALL01 0102030405060708 *NOTE: "RECALL01" means recall from memory address 2. 0102030405060708 are the input numbers connected to outputs 1–8.*	Output1= 01, output 1 to input1 Output2= 02, output 2 to input2 Output3= 03, output 3 to input3 Output4=04, output 4 to input4 Output5= 05, output 5 to input 5 Output6 = 06, output 6 to input 6 Output7 = 07, output 7 to input 7 Output8 = 08, output 8 to input 8
	RECALL 02?;	RECALL01 0102030405060708 *NOTE: "RECALL02" means recall from memory address 3. 0102030405060708 are the input numbers connected to outputs 1–8.*	Output1= 01, output 1 to input1 Output2= 02, output 2 to input2 Output3= 03, output 3 to input3 Output4=04, output 4 to input4 Output5= 05, output 5 to input 5 Output6 = 06, output 6 to input 6 Output7 = 07, output 7 to input 7 Output8 = 08, output 8 to input 8
	RECALL 03?;	RECALL03 0102030405060708 *NOTE: "RECALL03" means recall from memory address 4. 0102030405060708 are the input numbers connected to outputs 1–8.*	Output1= 01, output 1 to input1 Output2= 02, output 2 to input2 Output3= 03, output 3 to input3 Output4=04, output 4 to input4 Output5= 05, output 5 to input 5 Output6 = 06, output 6 to input 6 Output7 = 07, output 7 to input 7 Output8 = 08, output 8 to input 8
	RECALL 04?;	RECALL04 0102030405060708 *NOTE: "RECALL04" means recall from memory address 5. 0102030405060708 are the input numbers connected to outputs 1–8.*	Output1= 01, output 1 to input1 Output2= 02, output 2 to input2 Output3= 03, output 3 to input3 Output4=04, output 4 to input4 Output5= 05, output 5 to input 5 Output6 = 06, output 6 to input 6 Output7 = 07, output 7 to input 7 Output8 = 08, output 8 to input 8
	RECALL 05?;	RECALL05 0102030405060708 *NOTE: "RECALL05" means recall from memory address 6. 0102030405060708 are the input numbers connected to outputs 1–8.*	Output1= 01, output 1 to input1 Output2= 02, output 2 to input2 Output3= 03, output 3 to input3 Output4=04, output 4 to input4 Output5= 05, output 5 to input 5 Output6 = 06, output 6 to input 6 Output7 = 07, output 7 to input 7 Output8 = 08, output 8 to input 8

7. Recall [mm]

Function	Command	Response	Description
Check the memory address data	RECALL 06?;	RECALL06 0102030405060708 *NOTE: "RECALL06" means recall from memory address 7. 0102030405060708 are the input numbers connected to outputs 1–8.*	Output1= 01, output 1 to input1 Output2= 02, output 2 to input2 Output3= 03, output 3 to input3 Output4=04, output 4 to input4 Output5= 05, output 5 to input 5 Output6 = 06, output 6 to input 6 Output7 = 07, output 7 to input 7 Output8 = 08, output 8 to input 8
	RECALL 07?;	RECALL07 0102030405060708 *NOTE: "RECALL07" means recall from memory address 8. 0102030405060708 are the input numbers connected to outputs 1–8.*	Output1= 01, output 1 to input1 Output2= 02, output 2 to input2 Output3= 03, output 3 to input3 Output4=04, output 4 to input4 Output5= 05, output 5 to input 5 Output6 = 06, output 6 to input 6 Output7 = 07, output 7 to input 7 Output8 = 08, output 8 to input 8
	RECALL 08?;	RECALL08 0102030405060708 *NOTE: "RECALL08" means recall from memory address 9. 0102030405060708 are the input numbers connected to outputs 1–8.*	Output1= 01, output 1 to input1 Output2= 02, output 2 to input2 Output3= 03, output 3 to input3 Output4=04, output 4 to input4 Output5= 05, output 5 to input 5 Output6 = 06, output 6 to input 6 Output7 = 07, output 7 to input 7 Output8 = 08, output 8 to input 8
	RECALL 09?;	RECALL09 0102030405060708 *NOTE: "RECALL09" means recall from memory address 10. 0102030405060708 are the input numbers connected to outputs 1–8.*	Output1= 01, output 1 to input1 Output2= 02, output 2 to input2 Output3= 03, output 3 to input3 Output4=04, output 4 to input4 Output5= 05, output 5 to input 5 Output6 = 06, output 6 to input 6 Output7 = 07, output 7 to input 7 Output8 = 08, output 8 to input 8
	RECALL 0A?;	RECALL0A 0102030405060708 *NOTE: "RECALL0A means recall from memory address 11. 0102030405060708 are the input numbers connected to outputs 1–8.*	Output1= 01, output 1 to input1 Output2= 02, output 2 to input2 Output3= 03, output 3 to input3 Output4=04, output 4 to input4 Output5= 05, output 5 to input 5 Output6 = 06, output 6 to input 6 Output7 = 07, output 7 to input 7 Output8 = 08, output 8 to input 8
	RECALL 0B?;	RECALL0B 0102030405060708 *NOTE: "RECALL0B" means recall from memory address 12. 0102030405060708 are the input numbers connected to outputs 1–8.*	Output1= 01, output 1 to input1 Output2= 02, output 2 to input2 Output3= 03, output 3 to input3 Output4=04, output 4 to input4 Output5= 05, output 5 to input 5 Output6 = 06, output 6 to input 6 Output7 = 07, output 7 to input 7 Output8 = 08, output 8 to input 8

7. Recall [mm] (continued)

Function	Command	Response	Description
Check the memory address data	RECALL 0C?;	RECALL0C 0102030405060708 *NOTE: "RECALL0C" means recall from memory address 13.* 0102030405060708 *are the input numbers connected to outputs 1–8.*	Output1= 01, output 1 to input1 Output2= 02, output 2 to input2 Output3= 03, output 3 to input3 Output4=04, output 4 to input4 Output5= 05, output 5 to input 5 Output6 = 06, output 6 to input 6 Output7 = 07, output 7 to input 7 Output8 = 08, output 8 to input 8
	RECALL 0D?;	RECALL0D 0102030405060708 *NOTE: "RECALL0D" means recall from memory address 14.* 0102030405060708 *are the input numbers connected to outputs 1–8.*	Output1= 01, output 1 to input1 Output2= 02, output 2 to input2 Output3= 03, output 3 to input3 Output4=04, output 4 to input4 Output5= 05, output 5 to input 5 Output6 = 06, output 6 to input 6 Output7 = 07, output 7 to input 7 Output8 = 08, output 8 to input 8
	RECALL 0E?;	RECALL0E 0102030405060708 *NOTE: "RECALL0E" means recall from memory address 15.* 0102030405060708 *are the input numbers connected to outputs 1–8.*	Output1= 01, output 1 to input1 Output2= 02, output 2 to input2 Output3= 03, output 3 to input3 Output4=04, output 4 to input4 Output5= 05, output 5 to input 5 Output6 = 06, output 6 to input 6 Output7 = 07, output 7 to input 7 Output8 = 08, output 8 to input 8
	RECALL 0F?;	RECALL0F 0102030405060708 *NOTE: "RECALL0F" means recall from memory address 16.* 0102030405060708 *are the input numbers connected to outputs 1–8.*	Output1= 01, output 1 to input1 Output2= 02, output 2 to input2 Output3= 03, output 3 to input3 Output4=04, output 4 to input4 Output5= 05, output 5 to input 5 Output6 = 06, output 6 to input 6 Output7 = 07, output 7 to input 7 Output8 = 08, output 8 to input 8

8. Memory

Function	Command	Response	Description
Save current matrix configuration to memory address	MEMORY 00;	VSWHDMI8X8B 00; VSWHDMI8X8B 01	Save at memory address 00 Command not recognized
	MEMORY 01;	VSWHDMI8X8B 00; VSWHDMI8X8B 01	Save at memory address 01 Command not recognized
	MEMORY 02;	VSWHDMI8X8B 00; VSWHDMI8X8B 01	Save at memory address 02 Command not recognized
	MEMORY 03;	VSWHDMI8X8B 00; VSWHDMI8X8B 01	Save at memory address 03 Command not recognized
	MEMORY 04;	VSWHDMI8X8B 00; VSWHDMI8X8B 01	Save at memory address 04 Command not recognized
	MEMORY 05;	VSWHDMI8X8B 00; VSWHDMI8X8B 01	Save at memory address 05 Command not recognized
	MEMORY 06;	VSWHDMI8X8B 00; VSWHDMI8X8B 01	Save at memory address 06 Command not recognized
	MEMORY 07;	VSWHDMI8X8B 00; VSWHDMI8X8B 01	Save at memory address 07 Command not recognized
	MEMORY 08;	VSWHDMI8X8B 00; VSWHDMI8X8B 01	Save at memory address 08 Command not recognized
	MEMORY 09;	VSWHDMI8X8B 00; VSWHDMI8X8B 01	Save at memory address 09 Command not recognized
	MEMORY 0A;	VSWHDMI8X8B 00; VSWHDMI8X8B 01	Save at memory address 10 Command not recognized
	MEMORY 0B;	VSWHDMI8X8B 00; VSWHDMI8X8B 01	Save at memory address 11 Command not recognized
	MEMORY 0C;	VSWHDMI8X8B 00; VSWHDMI8X8B 01	Save at memory address 12 Command not recognized
	MEMORY 0D;	VSWHDMI8X8B 00; VSWHDMI8X8B 01	Save at memory address 13 Command not recognized
	MEMORY 0E;	VSWHDMI8X8B 00; VSWHDMI8X8B 01	Save at memory address 14 Command not recognized
	MEMORY 0F;	VSWHDMI8X8B 00; VSWHDMI8X8B 01	Save at memory address 15 Command not recognized

9. Lock

Function	Command	Response	Description
Unlock	LOCK 00;	VSWHDMI8X8B 00; VSWHDMI8X8B 01	Unlock Command not recognized
Lock	LOCK 01;	VSWHDMI8X8B 00; VSWHDMI8X8B 01	Lock Command not recognized
Check the status of lock	LOCK?;	Lock 00; Lock 01;	System Unlock System Lock

10. EDID

Function	Command	Response	Description
Set EDID	EDID00;	VSWHDMI8X8B 00; VSWHDMI8X8B 01	Set EDID to FSS Command not recognized
	EDID01;	VSWHDMI8X8B 00; VSWHDMI8X8B 01	Set EDID to H24-3D Command not recognized
	EDID02;	VSWHDMI8X8B 00; VSWHDMI8X8B 01	Set EDID to H24-3D Command not recognized
	EDID03;	VSWHDMI8X8B 00; VSWHDMI8X8B 01	Set EDID to H36-No 3D Command not recognized
	EDID04;	VSWHDMI8X8B 00; VSWHDMI8X8B 01	Set EDID to H36M-No 3D Command not recognized
	EDID05;	VSWHDMI8X8B 00; VSWHDMI8X8B 01	Set EDID to H36-3D Command not recognized
	EDID06;	VSWHDMI8X8B 00; VSWHDMI8X8B 01	Set EDID to H36-No 3DF Command not recognized
	EDID07;	VSWHDMI8X8B 00; VSWHDMI8X8B 01	Set EDID to Auto Command not recognized

Hex/Decimal Equivalents													
Hex	Decimal	Hex	Decimal	Hex	Decimal	Hex	Decimal	Hex	Decimal	Hex	Decimal	Hex	Decimal
00	0	10	16	20	32	30	48	40	64	50	80	60	96
01	1	11	17	21	33	31	49	41	65	51	81	61	97
02	2	12	18	22	34	32	50	52	66	52	82	62	98
03	3	13	19	23	35	33	51	43	67	53	83	63	99
04	4	14	20	24	36	34	52	44	68	54	84	64	100
05	5	15	21	25	37	35	53	45	69	55	85	—	—
06	6	16	22	26	38	30	54	46	70	56	86	—	—
07	7	17	23	27	39	37	55	47	71	57	87	—	—
08	8	18	24	28	40	38	56	48	72	58	88	—	—
09	9	19	25	29	41	39	57	49	73	59	89	—	—
0A	10	1A	26	2A	42	3A	58	4A	74	5A	90	—	—
0B	11	1B	27	2B	43	3B	59	4B	75	5B	91	—	—
0C	12	1C	28	2C	44	3C	60	4C	76	5C	92	—	—
0D	13	1D	29	2D	45	3D	61	4D	77	5D	93	—	—
0E	14	1E	30	2E	46	3E	62	4E	78	5E	94	—	—
0F	15	1F	31	2F	47	3F	63	4F	79	5F	95	—	—

NOTES

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